	Application No.	Applicant(s)	
A1 /*	10/744,003	KOMATSU ET AL.	(B)
Notice of Allowability	Examiner	Art Unit	
	Leith A. Al-Nazer	2821	
The MAILING DATE of this communication appear. All daims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RICE of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in this apport of the appropriate communication SHTS. This application is subject to	blication. If not included will be mailed in due co	ourse. THIS
1. X This communication is responsive to <u>communications filed or </u>	on 24 December 2003.		
2. 🛛 The allowed claim(s) is/are <u>1-7</u> .			
3. $igotimes$ The drawings filed on <u>24 December 2003</u> are accepted by t	he Examiner.		
4. Acknowledgment is made of a claim for foreign priority unda All b) Some* C) None Of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMETHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives OCORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperson 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying Indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the International Paper No./INFORMATION about the depose the priority documents have a priority documents	been received. been received in Application No uments have been received in this r of this communication to file a reply of this application. ted. Note the attached EXAMINER's reason(s) why the oath or declarate be submitted. be submitted. on's Patent Drawing Review (PTO-SAMINER') Amendment / Comment or in the Office of the application on the drawing header according to 37 CFR 1.121(december 1.121)	complying with the requestion of the front (not the bul).	irements TICE OF ack) of
7. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F	it of BIOLOGICAL MATERIAL m OR THE DEPOSIT OF BIOLOGICA	nust be submitted. No AL MATERIAL.	e the
Attachment(s)			
I. \(\text{Notice of References Cited (PTO-892)} \)	5. Notice of Informal Pa	•	152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary (Paper No./Mail Date	(PTO-413), ∍ .	
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 12/24/03, 04/13/04 	7. Examiner's Amendm	nent/Comment	
I. ☐ Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Statemen	nt of Reasons for Allowa	ance
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DETAILED ACTION

Allowable Subject Matter

1. Claims 1-7 are allowed.

2. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach or suggest one or more of the limitations found in independent claims 1 and 7. U.S. Patent No. 4,682,180 to Gans, U.S. Patent No. 5,905,471 to Biebl et al, U.S. Patent No. 6,097,345 to Walton, and U.S. Patent Application No. 2001/0050651 to Grangeat et al all teach similar systems to that of the present application. However, with respect to independent claims 1 and 7, Gans, Walton, and Grangeat all fail to teach or suggest a substantially box-shaped reflecting member including an opening thereof, and a conductive member being provided at least partially on an inner surface of the reflecting member. Also with respect to independent claims 1 and 7, Biebl fails to teach or suggest a radiation element provided on a dielectric substrate, and a grounding conductor surrounding a periphery of an outer edge portion of the radiation element at a position spaced away outwardly from the outer edge portion. Therefore, independent claims 1 and 7, as well as all dependent claims, are allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Citation of Pertinent References

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patent documents further show the state of the art with respect to vehicular and slot antennas:
 - a. U.S. Patent No. 5,568,159 to Pelton et al.
 - b. U.S. Patent No. 5,621,419 to Meek et al.
 - c. U.S. Patent No. 5,629,712 to Adrian et al.
 - d. U.S. Patent No. 6,329,950 to Harrell et al.
 - e. U.S. Patent No. 6,448,935 to Fuchs et al.

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leith A. Al-Nazer whose telephone number is 571-272-1938. The examiner can normally be reached on Monday-Friday, 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LA

SHIH-CHAO CHEN PRIMARY EXAMINER

Shik-Choo Chen

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